

APPENDIX A
“Clean” Version of Each Paragraph/Section/Claim
37 CFR 1.121(b)(ii) AND (c)(i)

CLAIMS (with indication of amended or new):

- E1
1. (Twice Amended) A loudspeaker unit for a sound source, the loudspeaker unit being adaptable to changing environments, comprising:
- loudspeaker;
 - a microphone for picking up sound regenerated from the loudspeaker;
 - a processor for comparing in real time a direct output signal from the microphone with an output signal from a sound source with reference to a frequency characteristic and an echo characteristic of the sound regenerated from the loudspeaker, or a reverberation characteristic of the sound, including the delay time for the echo characteristic or the reverberation characteristic, and correcting a signal from the sound source using the difference in output signal between the microphone and the sound source by reference to the frequency characteristic and the echo characteristic or the reverberation characteristic; and
 - an amplifier for amplifying the output of the processor.
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APPENDIX C
“Clean” Version Without Amended/New Indications
37 CFR 1.121(c)(3)

1. A loudspeaker unit for a sound source, the loudspeaker unit being adaptable to changing environments, comprising:
 - loudspeaker;
 - a microphone for picking up sound regenerated from the loudspeaker;
 - a processor for comparing in real time a direct output signal from the microphone with an output signal from a sound source with reference to a frequency characteristic and an echo characteristic of the sound regenerated from the loudspeaker, or a reverberation characteristic of the sound, including the delay time for the echo characteristic or the reverberation characteristic, and correcting a signal from the sound source using the difference in output signal between the microphone and the sound source by reference to the frequency characteristic and the echo characteristic or the reverberation characteristic; and
 - an amplifier for amplifying the output of the processor.
2. A loudspeaker unit adapted to the environment according to Claim 1 wherein said processor for correcting the signal from said sound source comprising:
 - a first A/D converter for performing digital conversion of a sound signal outputted from the sound source;
 - a memory for storing the converted voice data of samples taken within a fixed time determined as a subject time for the delay of the reverberation and the echo;
 - a second A/D converter for performing digital conversion of the feedback signal outputted from said microphone as the feedback data;
 - a successive comparison analysis part for successively comparing said feedback data with the stored voice data, analyzing the intensity of the reverberation and the echo and outputting the result as a correction parameter;

a regenerative signal processing part for adding data corrected by said correction parameter to the stored voice data and processing the result as the regenerative data; and
a D/A converter for converting said regenerative data to an analog signal.

3. A loudspeaker unit adapted to the environment according to Claim 1 wherein said successive comparison analysis part performs processing by adding antiphase feedback data to said voice data so that the difference between said voice data obtained as the serial data and said feedback data becomes a fixed value or 0.

4. A loudspeaker unit adapted to the environment according to Claim 1 wherein, the frequency comparison of the characteristic and the comparison of the characteristic of the echo or the reverberation each including the delay time are learned by arithmetic and a signal to be sent to the loudspeaker is corrected according to the learned result.

5. A loudspeaker unit adapted to the environment according to Claim 2, wherein, the frequency comparison of the characteristic and the comparison of the characteristic of the echo or the reverberation each including the delay time are learned by arithmetic and a signal to be sent to the loudspeaker is corrected according to the learned result.

6. A loudspeaker unit adapted to the environment according to Claim 1 wherein, the frequency comparison of the characteristic and the comparison of the characteristic of the echo or the reverberation each including the delay time are intermittently performed and a signal to be sent to the loudspeaker is corrected according to the comparison result.

7. A loudspeaker unit adapted to the environment according to claim 2, wherein, the frequency comparison of the characteristic and the comparison of the characteristic of the echo or the reverberation each including the delay time are intermittently performed and a signal to be sent to the loudspeaker is corrected according to the comparison result.

8. A loudspeaker unit adapted to the environment according to Claim 4 wherein,

the frequency comparison of the characteristic and the comparison of the characteristic of the echo or the reverberation each including the delay time are intermittently performed and a signal to be sent to the loudspeaker is corrected according to the comparison result.

9. A loudspeaker unit adapted to the environment according to Claim 5 wherein, the frequency comparison of the characteristic and the comparison of the characteristic of the echo or the reverberation each including the delay time are intermittently performed and a signal to be sent to the loudspeaker is corrected according to the comparison result.